

In re Patent Application of:
FLICK
Serial No. 10/626,969
Filing Date: JULY 25, 2003

In the Claims:

This listing of claims replaces all prior versions and listing of claims in the application.

1. (Currently amended) A vehicle security system for a vehicle of a type comprising a vehicle data communications bus extending throughout the vehicle and connected to a plurality of vehicle devices, the data communications bus carrying data and address information thereover, the vehicle security system comprising:

at least one vehicle security sensor interfacing with the vehicle data communications bus extending throughout the vehicle and carrying data and address information for generating a pre-warning signal or an alarm signal depending upon a sensed threat level;

an alarm indicator; and

a vehicle security controller interfacing with the vehicle data communications bus extending throughout the vehicle and carrying data and address information for causing said alarm indicator to generate a pre-warning indication based upon the pre-warning signal, or for causing said alarm indicator to generate an alarm indication based upon the alarm signal.

2. (Original) The vehicle security system of Claim 1 wherein said at least one vehicle security sensor comprises a multi-stage sensor.

3. (Original) The vehicle security system of Claim 1 wherein said at least one vehicle security sensor comprises

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a pre-warn sensor for providing the pre-warning signal and an alarm sensor for providing the alarm signal.

4. (Original) The vehicle security system of Claim 1 wherein the alarm indication has a greater duration than the pre-warning indication.

5. (Original) The vehicle security system of Claim 1 wherein said alarm indicator comprises an audible alarm indicator, and wherein the alarm indication has a greater volume than the pre-warning indication.

6. (Original) The vehicle security system of Claim 1 wherein said at least one vehicle security sensor comprises at least one motion sensor.

7. (Original) The vehicle security system of Claim 1 wherein said at least one vehicle security sensor comprises a two-zone shock sensor.

8. (Original) The vehicle security system of Claim 1 wherein said alarm indicator comprises at least one of a siren, a horn, and a vehicle light.

9. (Currently amended) The vehicle security system of Claim 1 further comprising a signal enabler for enabling said vehicle security controller to operate using a desired set of signals for a corresponding desired vehicle from a plurality of sets of signals for different vehicles for permitting said vehicle security controller to communicate

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with said at least one vehicle security sensor and said alarm indicator via the vehicle data communications bus extending throughout the vehicle and carrying data and address information.

10. (Currently amended) The vehicle security system of Claim 9 wherein said signal enabler comprises a bus learning device for learning the desired set of signals based upon signals on the vehicle data communications bus extending throughout the vehicle and carrying data and address information.

11. (Original) The vehicle security system of Claim 9 wherein said signal enabler comprises a download device for downloading the desired set of signals.

12. (Currently amended) A vehicle security system for a vehicle of a type comprising a vehicle data communications bus extending throughout the vehicle, the data communications bus carrying data and address information thereover, and connected to a plurality of vehicle devices, the vehicle security system comprising:

at least one vehicle security sensor for generating a pre-warning signal or an alarm signal depending upon a sensed threat level;

an alarm indicator interfacing with the vehicle data communications bus extending throughout the vehicle and carrying data and address information; and

a vehicle security controller connected to said at least one vehicle security sensor and interfacing with the

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vehicle data communications bus extending throughout the vehicle and carrying data and address information for causing said alarm indicator to generate a pre-warning indication based upon the pre-warning signal, or for causing said alarm indicator to generate an alarm indication based upon the alarm signal.

13. (Original) The vehicle security system of Claim 12 wherein said at least one vehicle security sensor comprises a multi-stage sensor.

14. (Original) The vehicle security system of Claim 12 wherein said at least one vehicle security sensor comprises a pre-warn sensor for providing the pre-warning signal and an alarm sensor for providing the alarm signal.

15. (Original) The vehicle security system of Claim 12 wherein the alarm indication has a greater duration than the pre-warning indication.

16. (Original) The vehicle security system of Claim 12 wherein said alarm indicator comprises an audible alarm indicator, and wherein the alarm indication has a greater volume than the pre-warning indication.

17. (Original) The vehicle security system of Claim 12 wherein said at least one vehicle security sensor comprises at least one motion sensor.

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18. (Original) The vehicle security system of Claim 12 wherein said at least one vehicle security sensor comprises a two-zone shock sensor.

19. (Original) The vehicle security system of Claim 12 wherein said alarm indicator comprises at least one of a siren, a horn, and a vehicle light.

20. (Currently amended) A vehicle security device for use with a vehicle of a type comprising a vehicle data communications bus extending throughout the vehicle, the data communications bus carrying data and address information thereover, and comprising:

at least one sensor for generating a pre-warning signal or an alarm signal depending upon a sensed threat level; and

a security sensor bus interface for interfacing said at least one sensor with the vehicle data communications bus extending throughout the vehicle and carrying data and address information.

21. (Original) The vehicle security device of Claim 20 further comprising a housing carrying said at least one sensor.

22. (Original) The vehicle security device of Claim 20 wherein said at least one sensor comprises a multi-stage sensor.

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23. (Original) The vehicle security device of Claim 20 wherein said at least one sensor comprises at least one motion sensor.

24. (Original) The vehicle security device of Claim 20 wherein said at least one sensor comprises a two-zone shock sensor.

25. (Currently amended) A vehicle security device for a vehicle of a type comprising a vehicle data communications bus extending throughout the vehicle, the data communications bus carrying data and address information thereover, and comprising:

an alarm indicator and associated alarm indicator data bus interface for interfacing said alarm indicator with the vehicle data communications bus extending throughout the vehicle and carrying data and address information;

said alarm indicator for generating a pre-warning indication responsive to a pre-warning signal on the vehicle data communications bus extending throughout the vehicle, and for generating an alarm indication based upon an alarm signal on the vehicle data communications bus extending throughout the vehicle and carrying data and address information.

26. (Original) The vehicle security device of Claim 25 wherein the alarm indication has a greater duration than the pre-warning indication.

27. (Original) The vehicle security device of Claim 25 wherein said alarm indicator comprises an audible alarm

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indicator, and wherein the alarm indication has a greater volume than the pre-warning indication.

28. (Original) The vehicle security device of Claim 25 wherein said alarm indicator comprises a siren.

29. (Original) The vehicle security device of Claim 25 further comprising a housing carrying said alarm indicator and said alarm indicator data bus interface.

30. (Currently amended) A vehicle security method for a vehicle of a type comprising a vehicle data communications bus extending throughout the vehicle, the data communications bus carrying data and address information thereover, and an alarm indicator, the method comprising:

interfacing at least one vehicle security sensor with the vehicle data communications bus extending throughout the vehicle and carrying data and address information, the at least one vehicle security sensor for generating a pre-warning signal or an alarm signal depending upon a sensed threat level; and

causing the alarm indicator to generate a pre-warning indication based upon the pre-warning signal, or causing the alarm indicator to generate an alarm indication based upon the alarm signal.

31. (Original) The method of Claim 30 wherein the at least one vehicle security sensor comprises a housing and a multi-stage sensor carried by the housing.

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32. (Original) The method of Claim 30 wherein the at least one vehicle security sensor comprises a pre-warn sensor for providing the pre-warning signal and an alarm sensor for providing the alarm signal.

33. (Original) The method of Claim 30 wherein the alarm indication has a greater duration than the pre-warning indication.

34. (Original) The method of Claim 30 wherein the alarm indicator comprises an audible alarm indicator, and wherein the alarm indication has a greater volume than the pre-warning indication.

35. (Original) The method of Claim 30 wherein the at least one vehicle security sensor comprises at least one motion sensor.

36. (Original) The method of Claim 30 wherein the at least motion sensor comprises a two-zone shock sensor.

37. (Currently amended) A vehicle security method for a vehicle of a type comprising a vehicle data communications bus extending throughout the vehicle, the data communications bus carrying data and address information thereover, the method comprising:

interfacing an alarm indicator with the vehicle data communications bus extending throughout the vehicle and carrying data and address information; and

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causing the alarm indicator to generate a pre-warning indication based upon a pre-warning signal on the vehicle data communications bus extending throughout the vehicle and carrying data and address information, and causing the alarm indicator to generate an alarm indication based upon an alarm signal on the vehicle data communications bus extending throughout the vehicle and carrying data and address information.

38. (Original) The method of Claim 37 wherein the alarm indication has a greater duration than the pre-warning indication.

39. (Original) The method of Claim 37 wherein the alarm indicator comprises an audible alarm indicator, and wherein the alarm indication has a greater volume than the pre-warning indication.

40. (Original) The method of Claim 37 wherein the alarm indicator comprises at least one of a siren and a horn.